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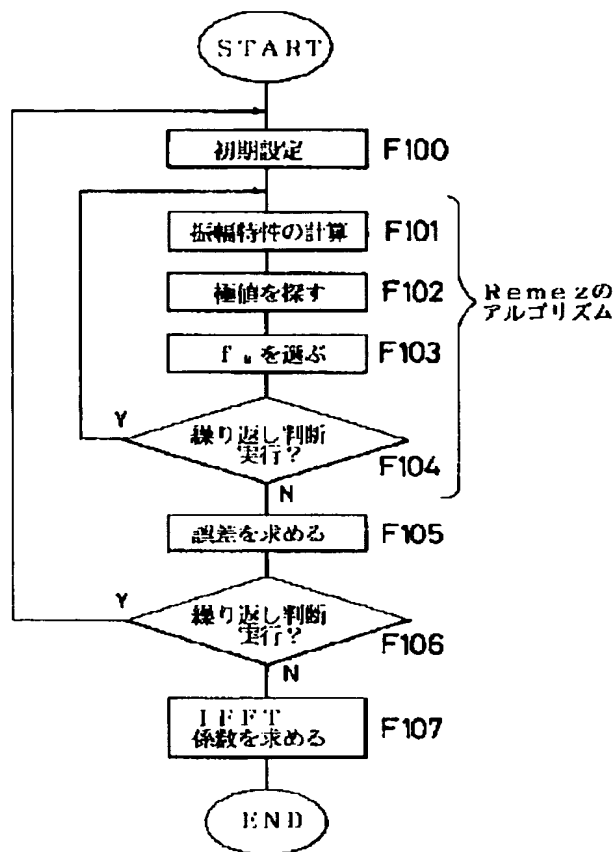
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TITLE : COEFFICIENT SETTING METHOD AND
FIR FILTER



ABSTRACT : PURPOSE: To easily design a filtering means with desired frequency characteristic and error ratio in all frequency band areas including a transition area.

CONSTITUTION: As initialization, a frequency sampling point used in the algorithm of Remez can be found by a parameter inputted first and filter length updated in step F106, and purpose characteristic and weight at that point can be obtained (F100-F101). In steps F102-F104, approximation with fixed filter length is performed from the purpose characteristic and the weight found in step F101 by the algorithm of Remez. Then, an error between amplitude characteristic found in step F104 and the purpose characteristic is checked in step F105 and it is judged whether or not repeat calculation should be performed depending on a state where the error is within an allowable range in step F106. Finally, a filter coefficient can be found by applying fast inverse Fourier transformation (IFFT) to the amplitude characteristic found in step F107.

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